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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/694,313	10/27/2003	Frank Athari	IR-2402 (2-3760)	3552
7590 10/05/2005 OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 Avenue of the Americas			EXAMINER	
			BENENSON, BORIS	
New York, NY	- ·		ART UNIT PAPER NUMBER	
			2836	
			DATE MAILED: 10/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	\wedge	
Office Action Commons	10/694,313	ATHARI, FRANK	and	
Office Action Summary	Examiner	Art Unit		
	Boris Benenson	2836		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	Idress	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	l. ely filed the mailing date of this c O (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 27 Oc	ctober 2003.			
	action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the me				
closed in accordance with the practice under E	·			
Disposition of Claims				
4) ☐ Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-36 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or				
Application Papers				
9)☑ The specification is objected to by the Examiner 10)☑ The drawing(s) filed on 27 October 2003 is/are: Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Ex	a) accepted or b) ⊠ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 Cl	FR 1.121(d).	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage	
Attachment(s)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te	O-152)	

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Detailed Actions

Drawings

The drawings are objected to because element identifiers on Figures 1-6 are not readable. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Abstract is objected because it is exceeds the limit of 150 words.

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Claim Objections

3. Claim 32 is objected to because of the following informalities: Claim cannot be dependent on itself.

Appropriate correction is required.

4. Claim 3 objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 1 defined an integrated circuit as comprising a control circuit for a switch ... having an output terminal connecter to the switch. It is inherent that an output of such control circuit is connected to a control terminal of the switch.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 1-6 and 19-24 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1-5 and 7-11 of U.S. Patent No. 6,781,352 in view of Chavez et al. (6,163,470). Athari et al. (6,781,352) disclose and claim all limitations of independent Claims 1 and 19 except "an inrush current limiting circuit for limiting current through the inductor to value below a predetermine level). Chavez et al. teach an EME Filter For An Inrush Relay, wherein a inrush current limiting resistor (Fig.1, Pos. 70) limits an inrush current through an inductor (Fig. 1, Pos.30). Chavez et al. teach, "Inrush current must be limited to a certain level. Without such limitation, the inrush current may trip the input protective devices such as, for example, circuit breakers and fuses. The inrush current also generates unwanted noise and affects equipment connected across the power mains" (Col.1, Lines 15-20). Chavez et al. teach a bypass circuit that bypasses the inrush current limiting resistor during normal operations. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Athari et al. (6,781,352) with teachings of Chavez et al. and install an inrush current limiter for limiting

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current through the inductor and a bypass circuit for bypassing the inrush current limiting resistor during normal operations, because it will prevent unnecessary tripping due excessive inrush overcurrent.

Referring to Claims 4,11, 16, 22,29 preambles to Claims 1 and 7 of Athari et al. (6,781,352) indicate that the converter circuit is operating in continuous conduction mode.

6. Claims 7-18 and 25-36 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1-5 and 7-11 of U.S. Patent No. 6,781,352. Athari et al. (6,781,352) disclose and claim all limitations of independent Claims 7,13,25 and 31 except fan motor speed control circuit and a housekeeping power supply controller. It is well known in the art to provide electronic circuitry with cooling means to prevent an overheating condition. It is also well known in the art to provide an electronic device with separate power supply with its controller in order to maintain proper supply voltages. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified converter of Athari et al. (6,781,352) and install a housekeeping power supply and a variable speed fan, because it will prevent the converter from overheating as well as from overvoltage and undervoltage.

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Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Boris Benenson whose telephone number is (571) 272-2048. The examiner can normally be reached on M-F (8:20-6:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571) 272-2800 ext 36. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Boris Benenson

Examiner

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B.B.

ERIAN SIRCUS SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800